Array, String and Vector Exercises

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Using std::vector

- Write a program which creates an empty vector of int and populates it with the values 4, 2, 3, 4, 1 in order
- Display the first and the fourth elements of the vector
- Change the value of the third element to 6
- Print out all the elements of the vector in order

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Using std::string

- Write a program which creates a string containing the characters "Hello"
- Display the first and fifth characters of the string
- Change the value of the fourth character to 'b'
- Print out all the characters of the string in order

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Searching a string

- Write a program which creates a string with the characters "Hello world"
- Find the following characters or substrings in the string and display suitable output. Make sure you handle the case where the search is unsuccessful
  - 'o'
  - "or"
  - 'O'
- Explain your results

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